

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071520\
 Data File : VV071501.D
 Acq On : 15 Jul 2020 10:43
 Operator : SY/MD
 Sample : L3260-01DL 4X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X2M71DL

Quant Time: Jul 16 01:31:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 16 01:29:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	143393	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	134627	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	68922	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	38528	4.62	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.40%
7) Chloroethane-d5	1.58	69	31767	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.80%
11) 1,1-Dichloroethene-d2	2.12	63	63889	3.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.00%
20) 2-Butanone-d5	3.96	46	26765	15.64	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	31.28%#
24) Chloroform-d	4.37	84	84962	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
26) 1,2-Dichloroethane-d4	5.06	65	50307	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
32) Benzene-d6	5.07	84	154073	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.09	67	43200	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.34	98	145142	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
45) trans-1,3-Dichloropropene-	7.65	79	19603	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.60%
48) 2-Hexanone-d5	8.12	63	60466	48.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.74%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	29586	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	58519	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.53	94	3054	0.437	ug/L	92
12) 1,1-Dichloroethene	2.13	96	5098	0.591	ug/L #	1
13) Acetone	2.21	43	6648	5.350	ug/L	97
14) Carbon disulfide	2.31	76	48179	1.804	ug/L	99
15) Methyl Acetate	2.46	43	23314	9.714	ug/L	98
16) Methylene chloride	2.52	84	12287	1.183	ug/L	96
17) Methyl tert-butyl Ether	2.79	73	56356	2.629	ug/L	99
21) 2-Butanone	4.04	43	5324	2.772	ug/L #	86
22) cis-1,2-Dichloroethene	3.94	96	15984	1.594	ug/L	98
25) Chloroform	4.41	83	2084	0.108	ug/L	97
27) 1,2-Dichloroethane	5.16	62	17042	1.351	ug/L #	94
30) Cyclohexane	4.70	56	35787	2.470	ug/L	99
33) Benzene	5.12	78	46965	1.311	ug/L	100
34) Trichloroethene	5.94	95	9244	0.845	ug/L	90
35) Methylcyclohexane	6.15	83	77197	4.796	ug/L	97
37) 1,2-Dichloropropane	6.15	63	1205	0.145	ug/L #	84
39) cis-1,3-Dichloropropene	7.01	75	1730	0.130	ug/L #	72

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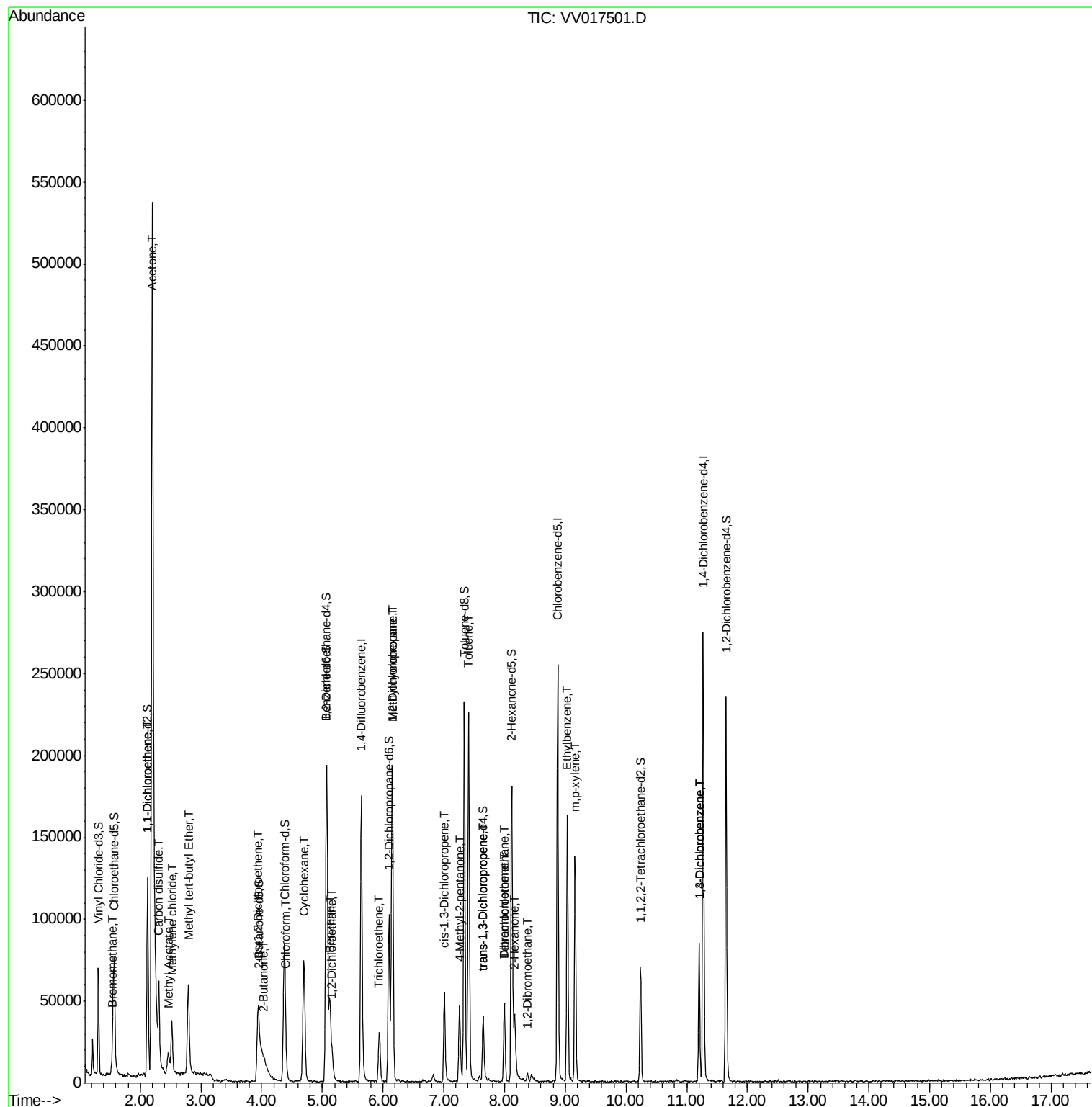
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.26	43	30658	6.995	ug/L	96
42) Toluene	7.41	91	156199	3.949	ug/L	99
46) trans-1,3-Dichloropropene	7.64	75	1312	0.112	ug/L #	77
49) Tetrachloroethene	8.00	164	11308	1.215	ug/L	89
50) 2-Hexanone	8.17	43	23884	7.417	ug/L	95
51) Dibromochloromethane	8.00	129	9787	1.146	ug/L #	12
52) 1,2-Dibromoethane	8.38	107	2933	0.483	ug/L #	93
54) Ethylbenzene	9.03	91	108014	2.386	ug/L	99
55) m,p-xylene	9.16	106	34914	2.040	ug/L	100
63) 1,3-Dichlorobenzene	11.20	146	34096	1.591	ug/L	96
64) 1,4-Dichlorobenzene	11.20	146	34096	1.603	ug/L	95

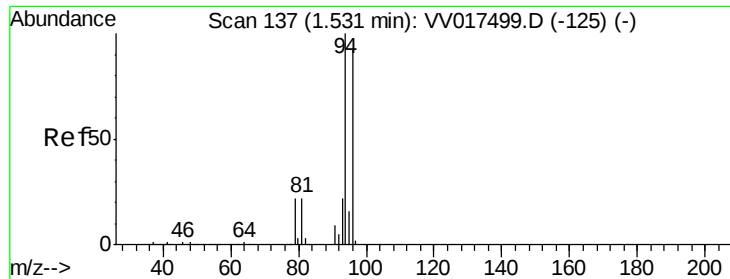
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.437 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

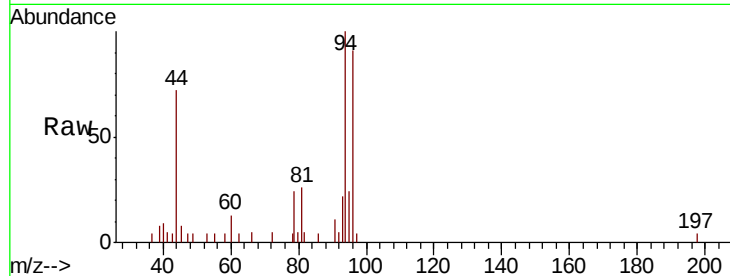
X2M71DL

Tot Ion: 94 Resp: 3054

Ion Ratio Lower Upper

94 100

96 90.8 69.0 128.2

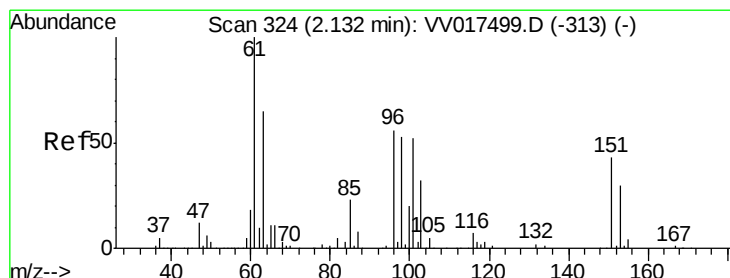
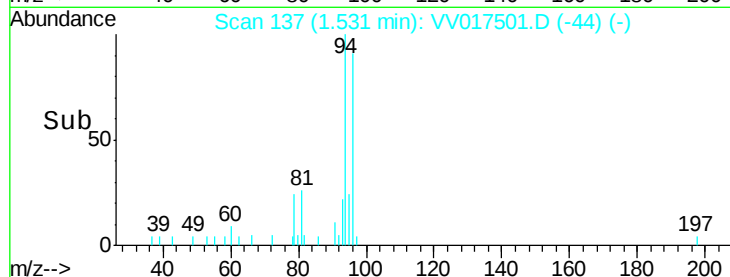


Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

Time-->



#12

1,1-Dichloroethene

Concen: 0.591 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

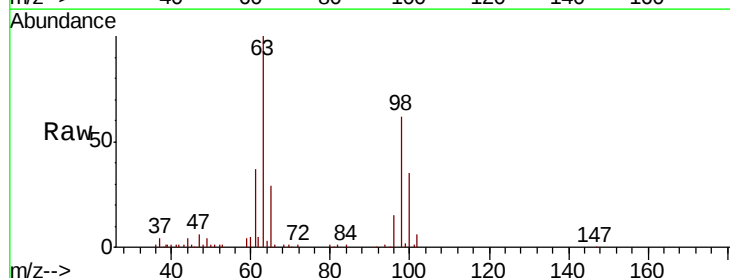
Tgt Ion: 96 Resp: 5098

Ion Ratio Lower Upper

96 100

61 255.3 137.2 254.8#

63 689.1 103.6 192.4#



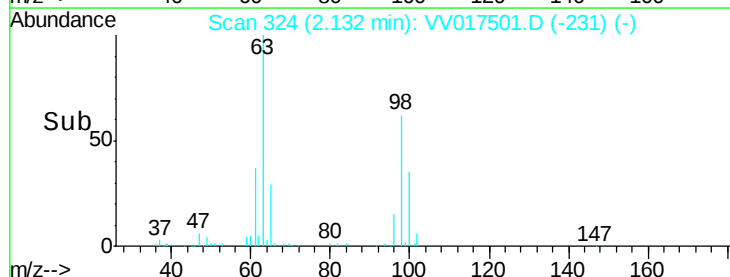
Abundance Ion 96.00 (95.70 to 96.70): VV0

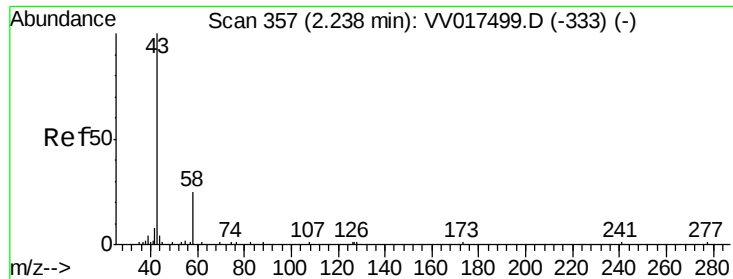
Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

2.13

Time-->





#13

Acetone

Concen: 5.350 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.03 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

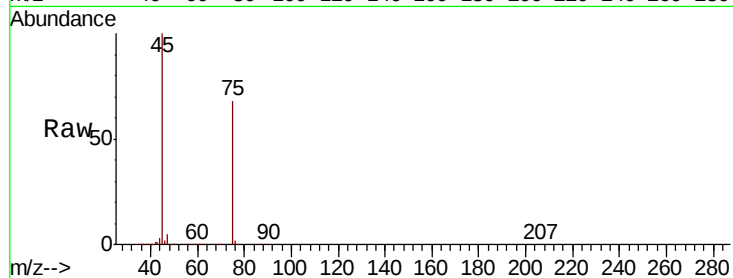
X2M71DL

Tot Ion: 43 Resp: 6648

Ion Ratio Lower Upper

43 100

58 18.0 0.0 33.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.21

4000

3000

2000

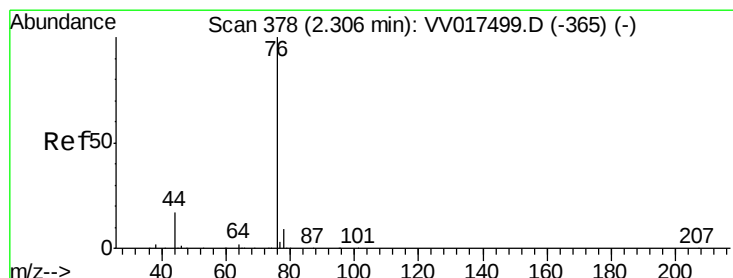
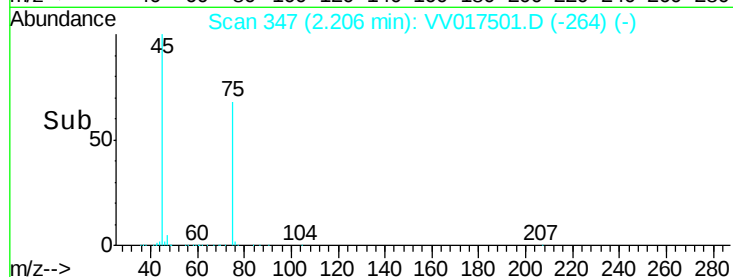
1000

0

Time-->

2.15

2.20



#14

Carbon disulfide

Concen: 1.804 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017501.D

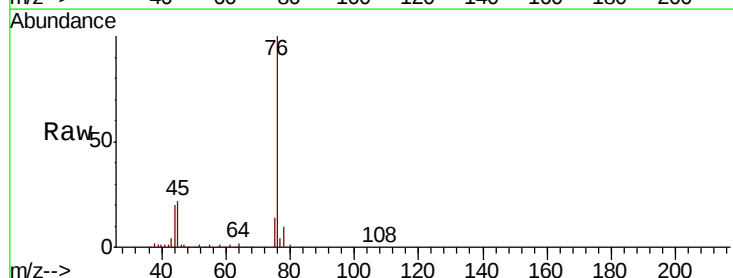
Acq: 15 Jul 2020 10:43

Tgt Ion: 76 Resp: 48179

Ion Ratio Lower Upper

76 100

78 9.9 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

30000

20000

10000

0

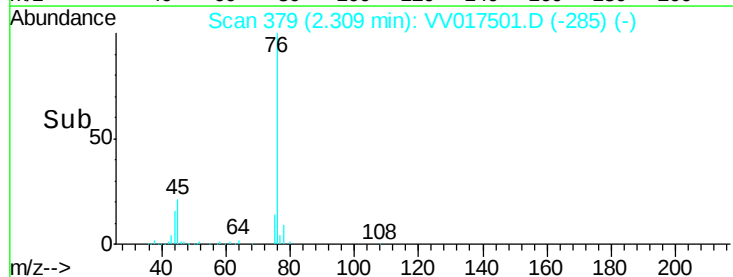
Time-->

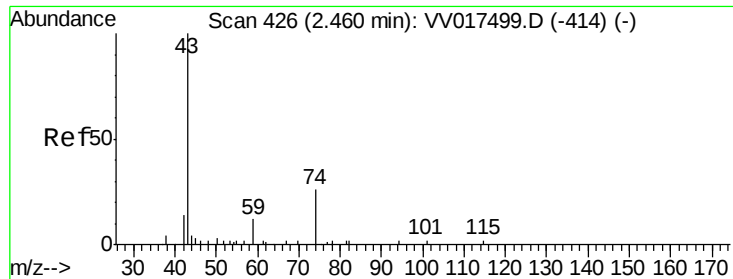
2.25

2.30

2.35

2.40

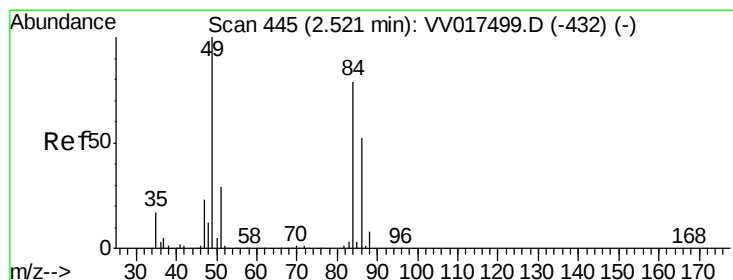
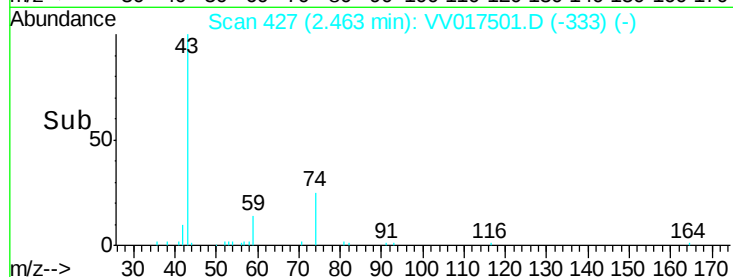
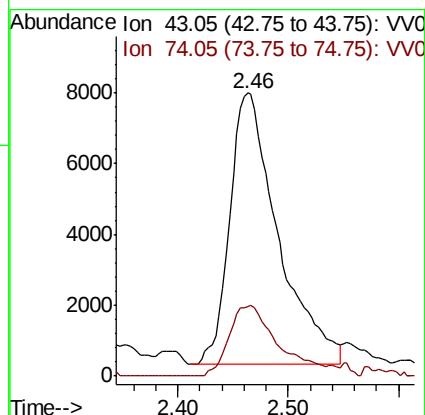
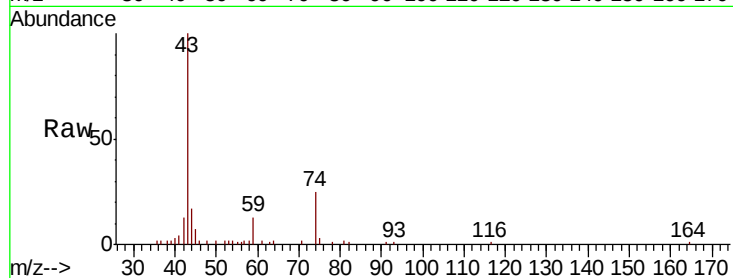




#15
Methyl Acetate
Concen: 9.714 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

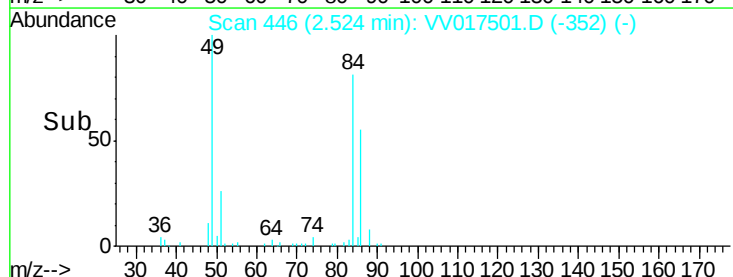
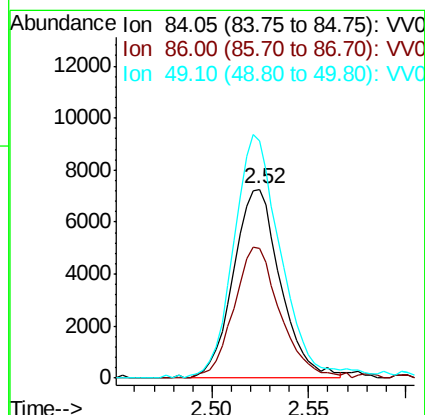
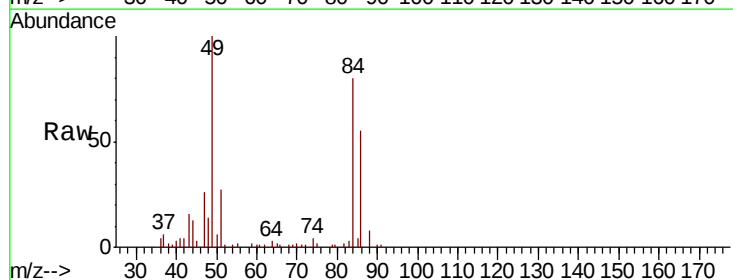
Instrument :
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ClientSampleId :
X2M71DL

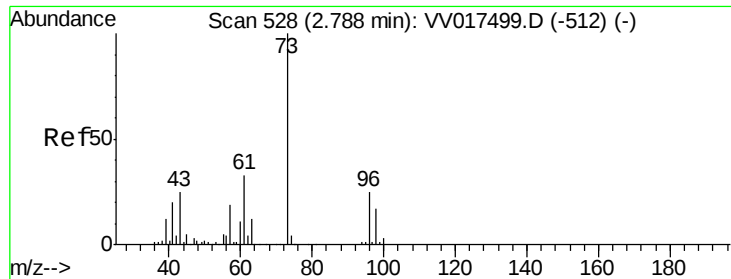
Tot Ion: 43 Resp: 23314
Ion Ratio Lower Upper
43 100
74 26.5 20.5 30.7



#16
Methylene chloride
Concen: 1.183 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion: 84 Resp: 12287
Ion Ratio Lower Upper
84 100
86 68.6 45.5 84.5
49 125.7 84.6 157.0

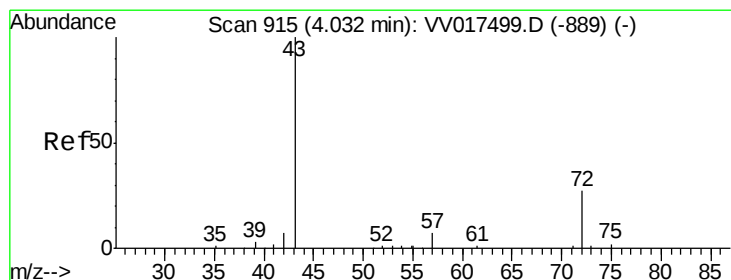
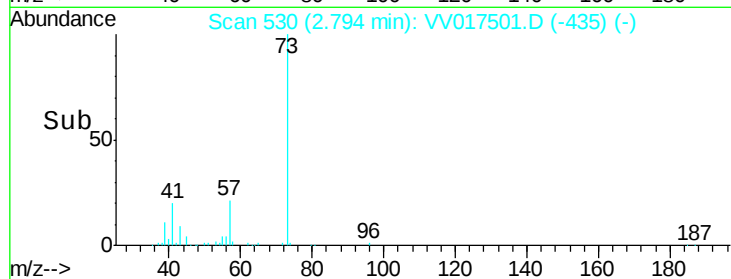
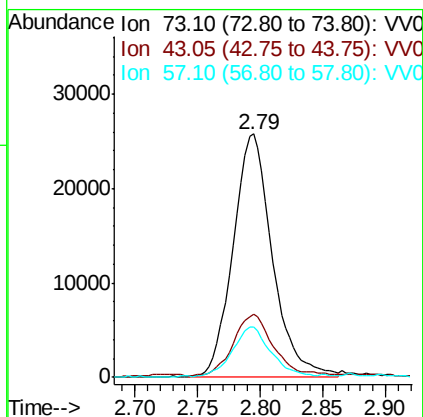
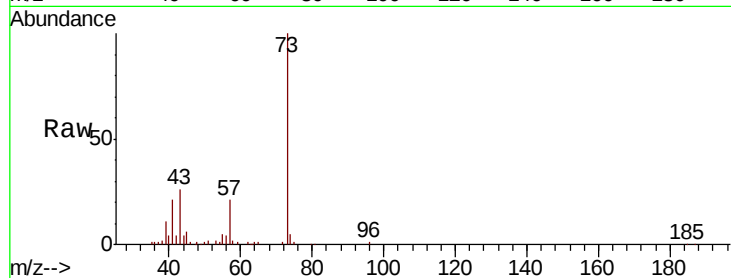




#17
Methvl tert-butvl Ether
Concen: 2.629 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

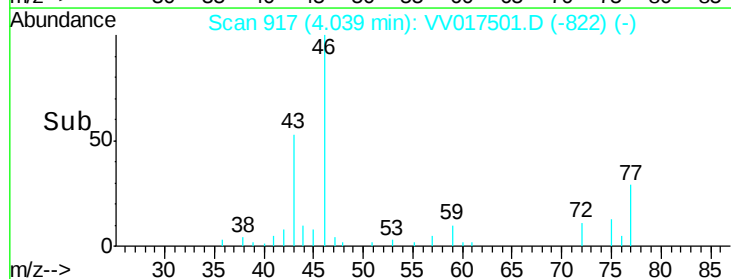
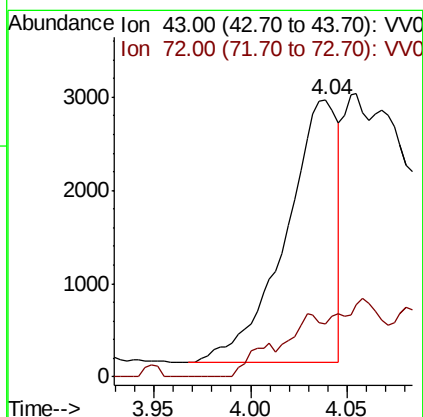
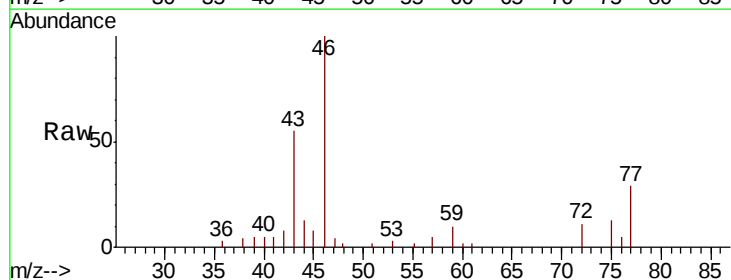
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ClientSampleId :
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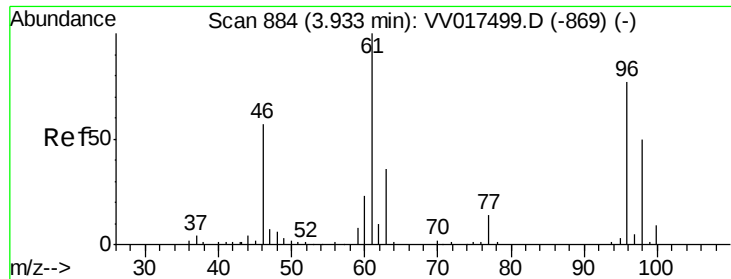
Tot Ion	73	Resp	56356
Ion	Ratio	Lower	Upper
73	100		
43	24.4	20.4	30.6
57	20.8	16.7	25.1



#21
2-Butanone
Concen: 2.772 ug/L
RT: 4.04 min Scan# 917
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion	43	Resp	5324
Ion	Ratio	Lower	Upper
43	100		
72	11.6	3.4	10.1#





#22

cis-1,2-Dichloroethene

Concen: 1.594 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

X2M71DL

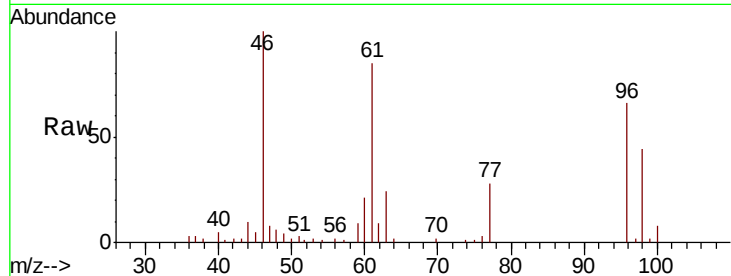
Tot Ion: 96 Resp: 15984

Ion Ratio Lower Upper

96 100

61 128.7 91.5 169.9

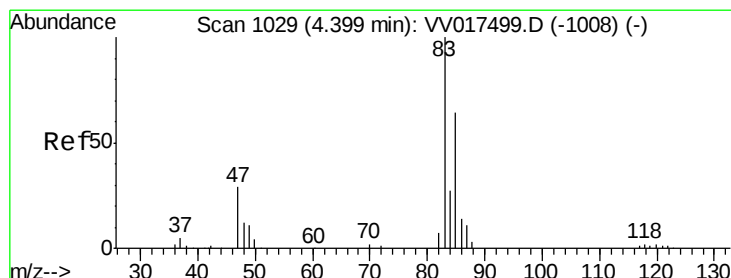
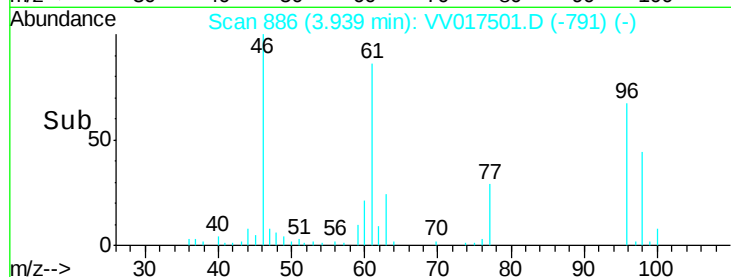
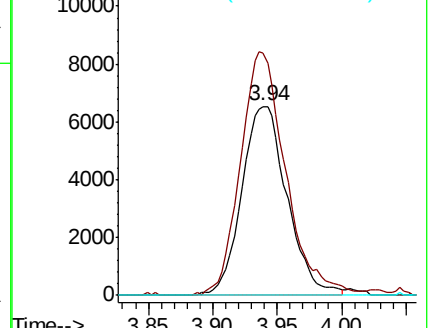
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV017501.D (-791) (-)

Ion 61.05 (60.75 to 61.75): VV017501.D (-791) (-)

Ion 68.15 (67.85 to 68.85): VV017501.D (-791) (-)



#25

Chloroform

Concen: 0.108 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV017501.D

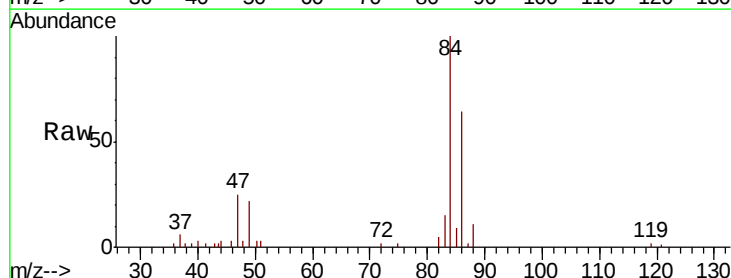
Acq: 15 Jul 2020 10:43

Tgt Ion: 83 Resp: 2084

Ion Ratio Lower Upper

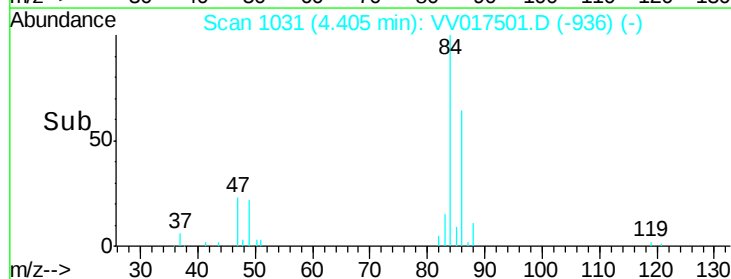
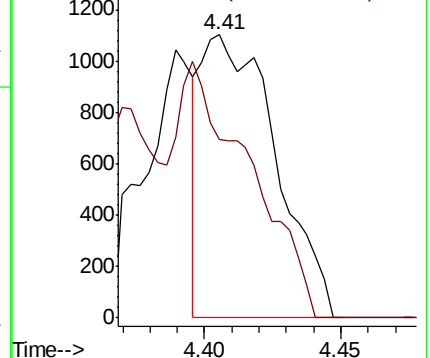
83 100

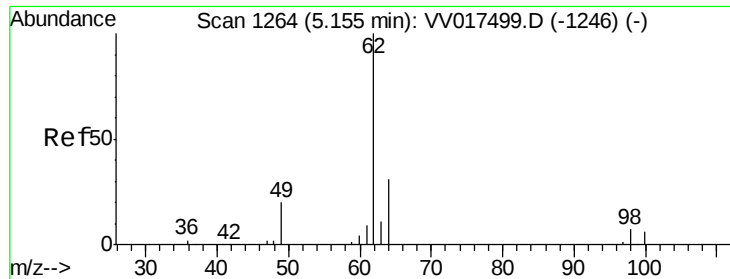
85 62.8 45.4 84.4



Abundance Ion 83.05 (82.75 to 83.75): VV017501.D (-936) (-)

Ion 85.00 (84.70 to 85.70): VV017501.D (-936) (-)

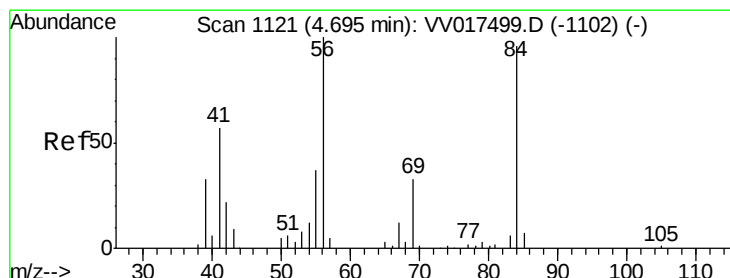
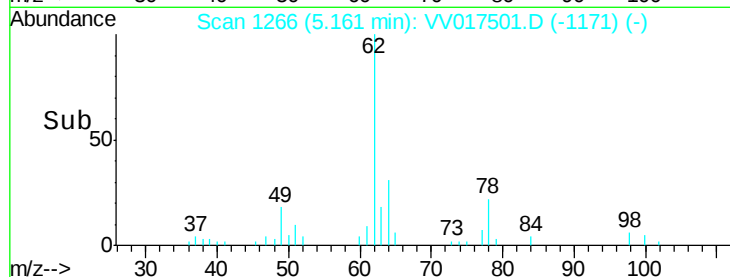
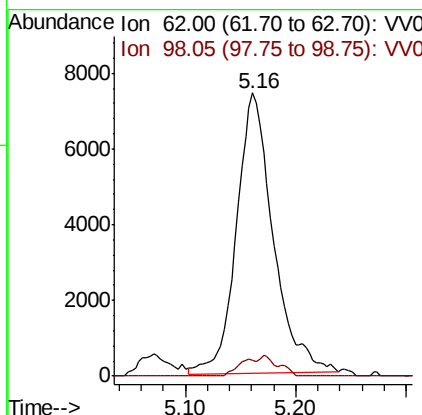
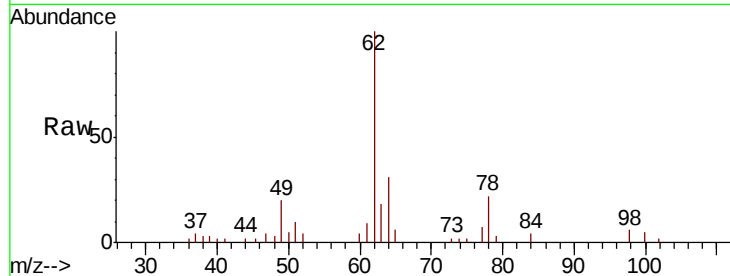




#27
 1,2-Dichloroethane
 Concen: 1.351 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

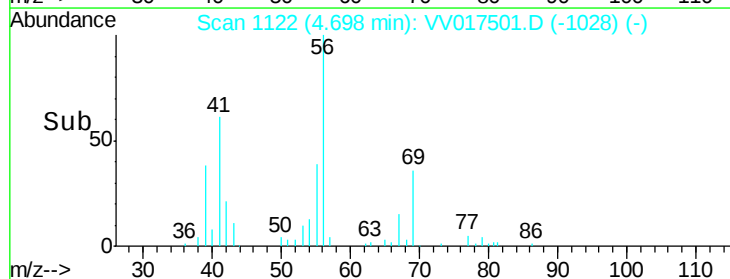
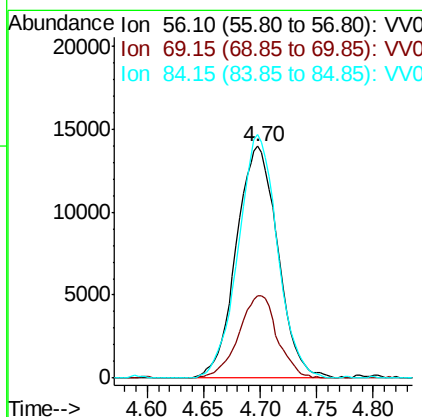
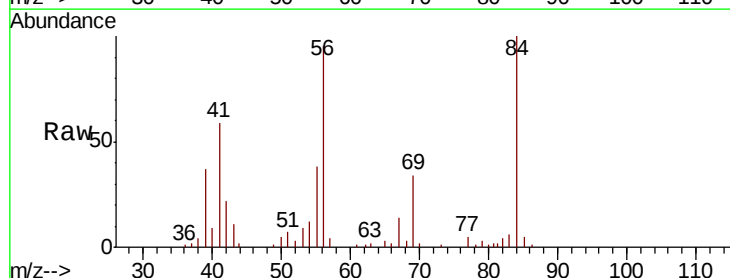
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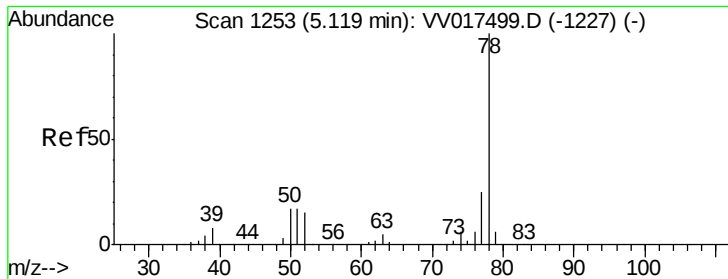
Tot Ion: 62 Resp: 17042
 Ion Ratio Lower Upper
 62 100
 98 5.5 6.2 9.2#



#30
 Cyclohexane
 Concen: 2.470 ug/L
 RT: 4.70 min Scan# 1122
 Delta R.T. 0.00 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

Tgt Ion: 56 Resp: 35787
 Ion Ratio Lower Upper
 56 100
 69 33.0 26.0 39.0
 84 98.9 77.9 116.9

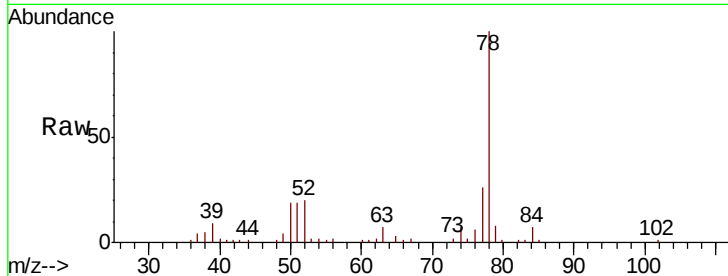




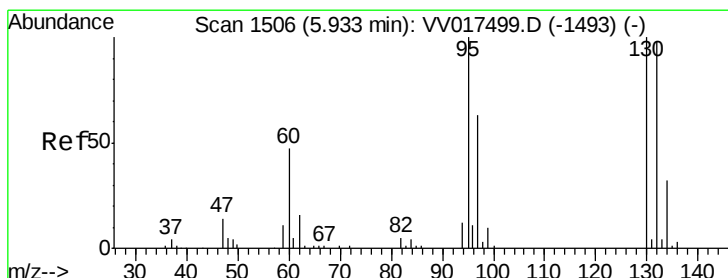
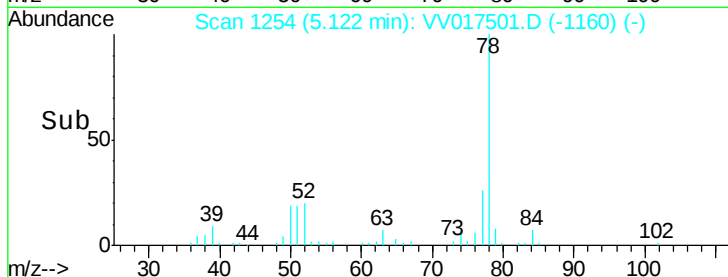
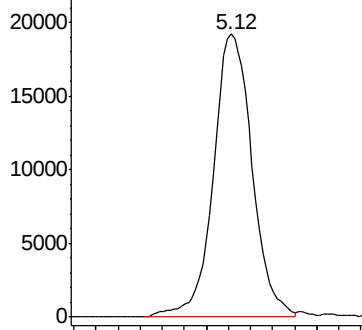
#33
Benzene
Concen: 1.311 ug/L
RT: 5.12 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Instrument :
MSVOA_V
ClientSampled :
X2M71DL

Tgt Ion: 78 Resp: 46965

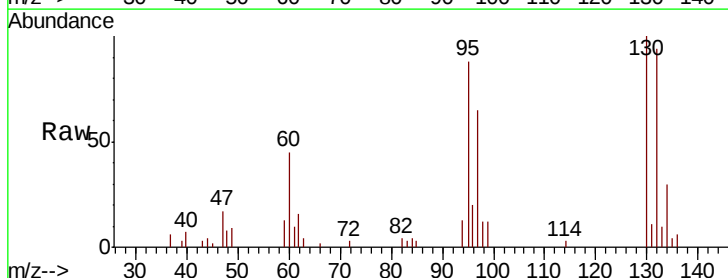


Abundance Ion 78.10 (77.80 to 78.80): VV0



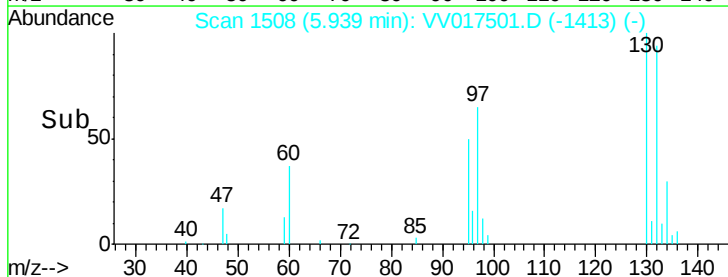
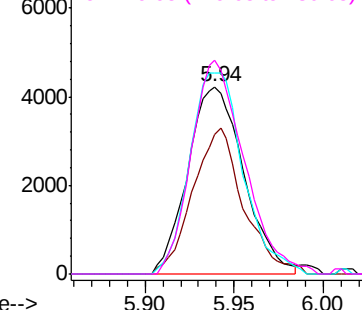
#34
Trichloroethene
Concen: 0.845 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

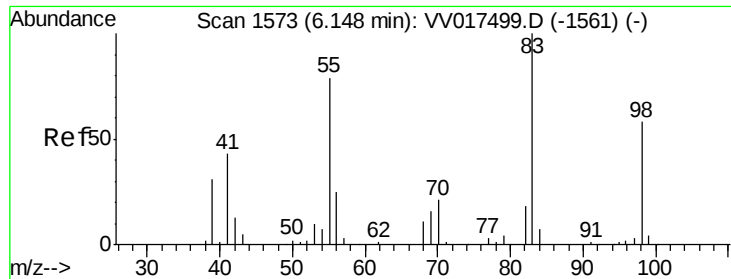
Tgt Ion: 95 Resp: 9244
Ion Ratio Lower Upper
95 100
97 74.7 43.9 81.5
132 107.8 67.9 126.1
130 114.3 75.2 139.6



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0
Ion 131.95 (131.65 to 132.65): VV0
Ion 129.95 (129.65 to 130.65): VV0

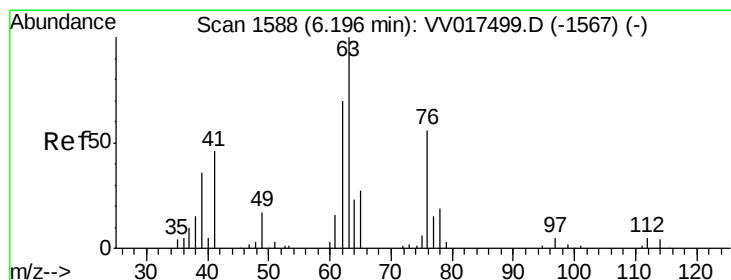
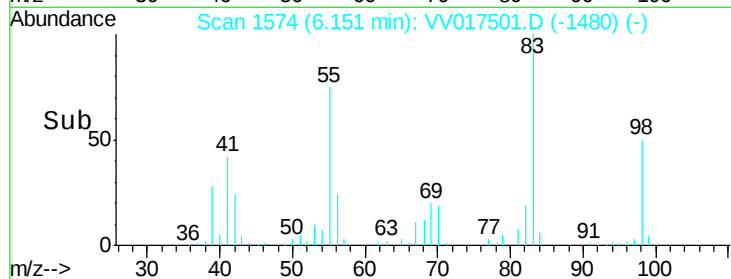
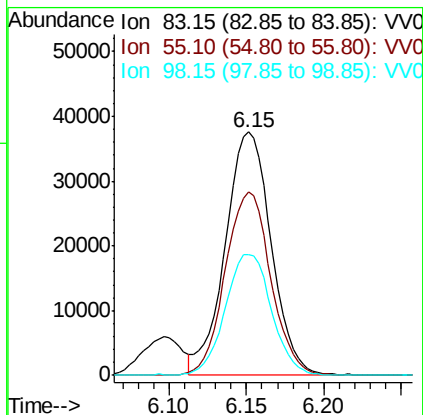
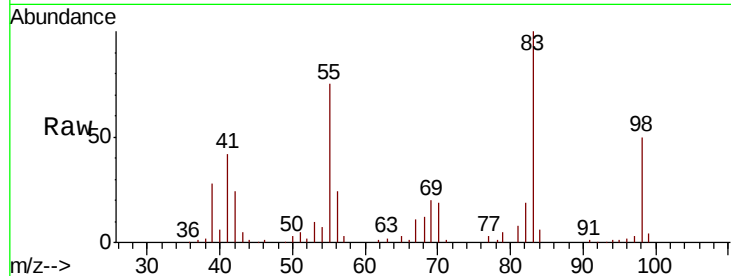




#35
Methylcyclohexane
Concen: 4.796 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

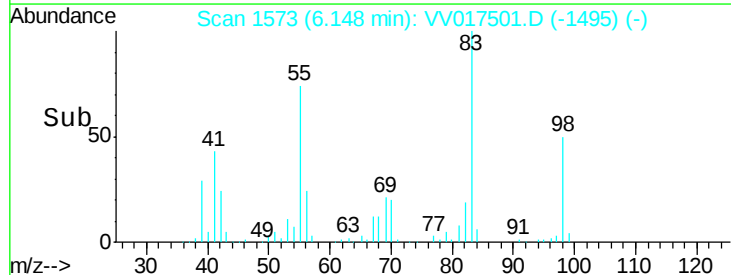
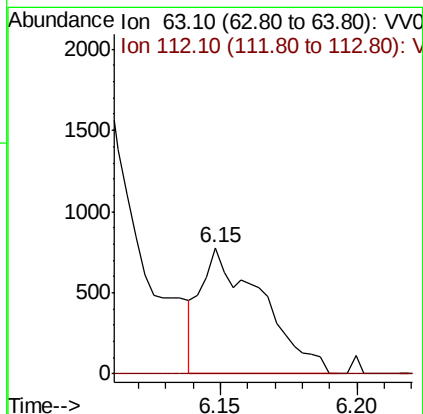
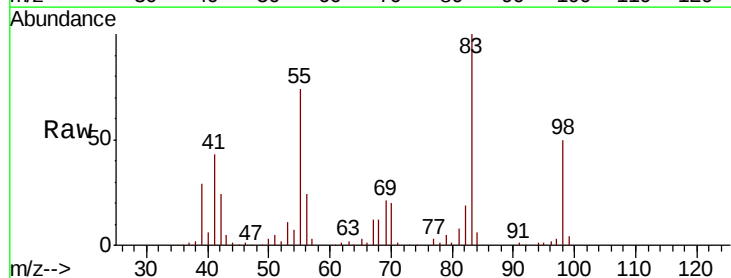
Instrument :
MSVOA_V
ClientSampled :
X2M71DL

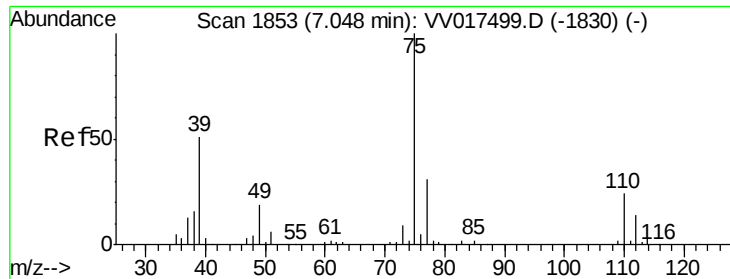
Tot Ion: 83 Resp: 77197
Ion Ratio Lower Upper
83 100
55 75.0 62.0 93.0
98 50.3 41.4 62.2



#37
1,2-Dichloropropane
Concen: 0.145 ug/L
RT: 6.15 min Scan# 1573
Delta R.T. -0.05 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion: 63 Resp: 1205
Ion Ratio Lower Upper
63 100
112 0.0 4.4 6.6#

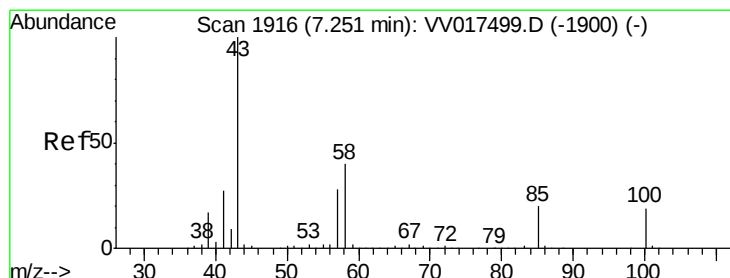
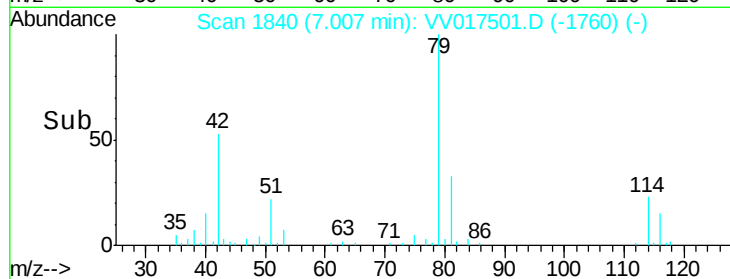
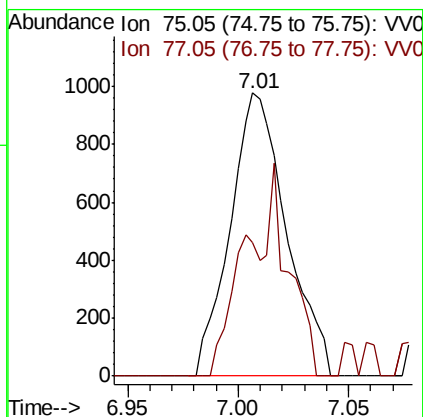
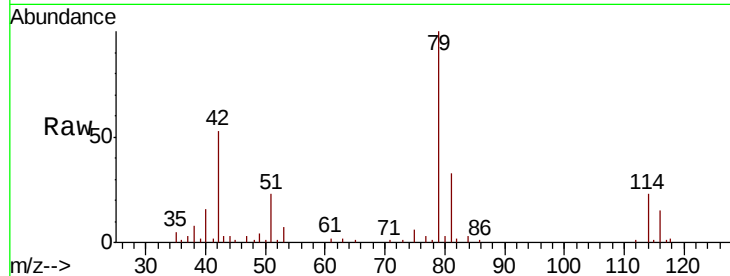




#39
 cis-1,3-Dichloropropene
 Concen: 0.130 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

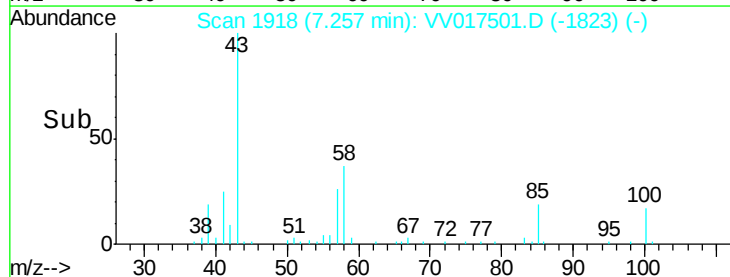
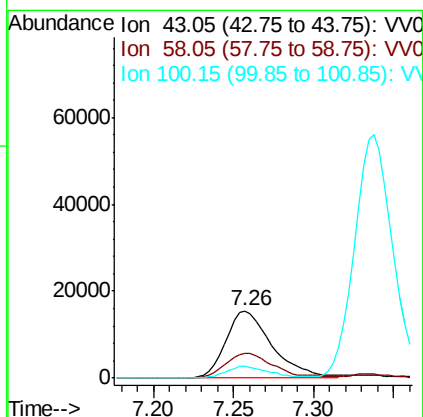
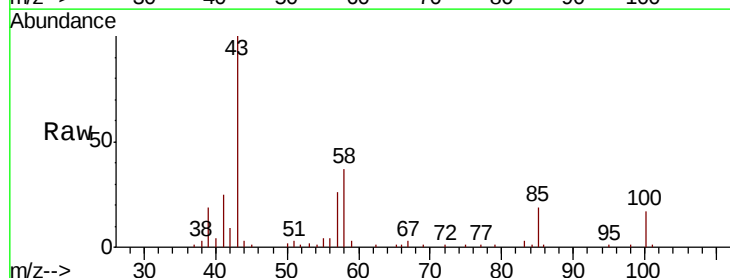
Instrument :
 MSVOA_V
 ClientSampled :
 X2M71DL

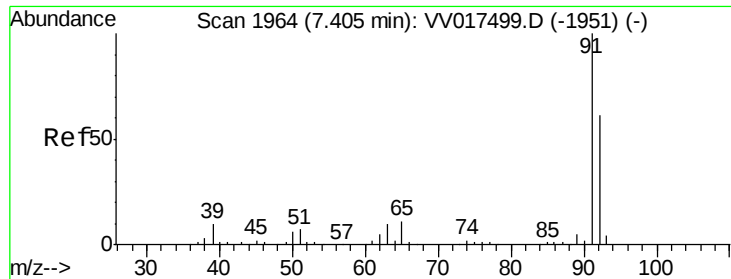
Tot Ion: 75 Resp: 1730
 Ion Ratio Lower Upper
 75 100
 77 47.4 22.3 41.5#



#40
 4-Methyl-2-pentanone
 Concen: 6.995 ug/L
 RT: 7.26 min Scan# 1918
 Delta R.T. 0.01 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

Tgt Ion: 43 Resp: 30658
 Ion Ratio Lower Upper
 43 100
 58 36.5 31.0 46.4
 100 16.3 14.4 21.6





#42

Toluene

Concen: 3.949 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

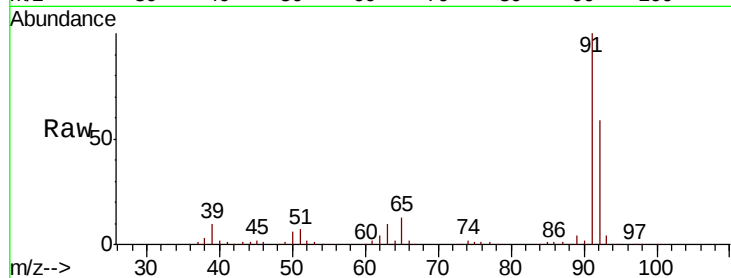
X2M71DL

Tot Ion: 91 Resp: 156199

Ion Ratio Lower Upper

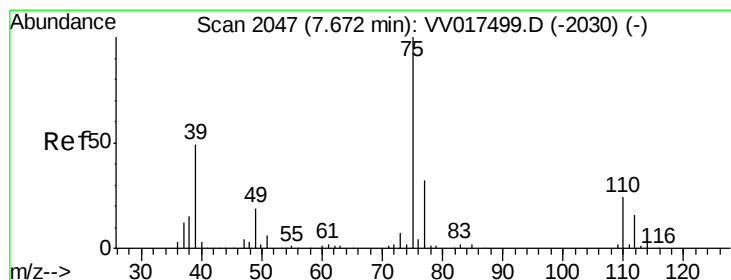
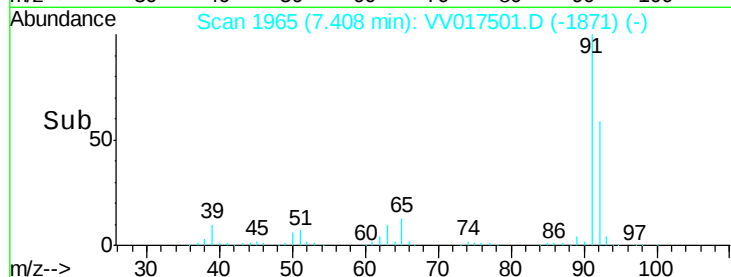
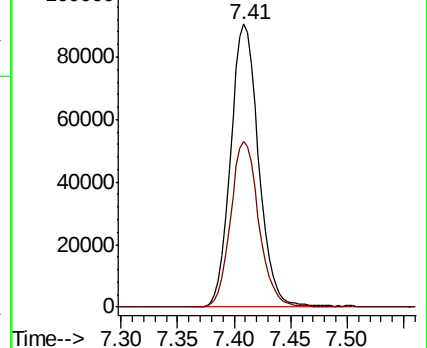
91 100

92 58.7 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#46

trans-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV017501.D

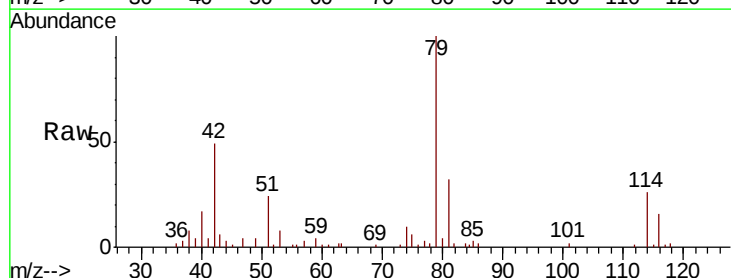
Acq: 15 Jul 2020 10:43

Tgt Ion: 75 Resp: 1312

Ion Ratio Lower Upper

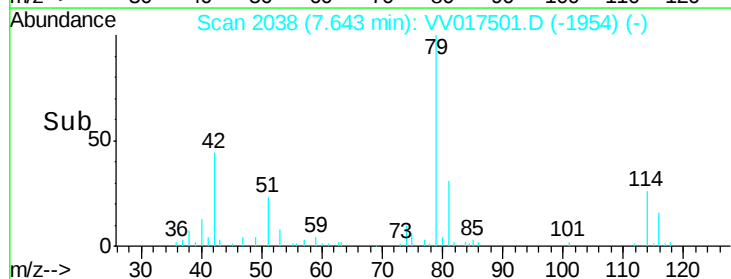
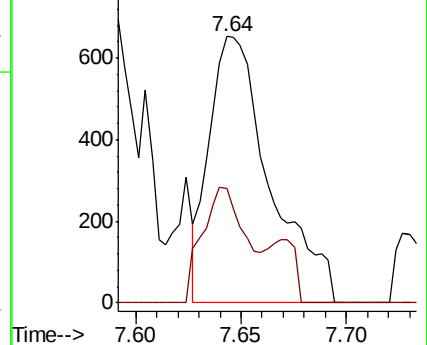
75 100

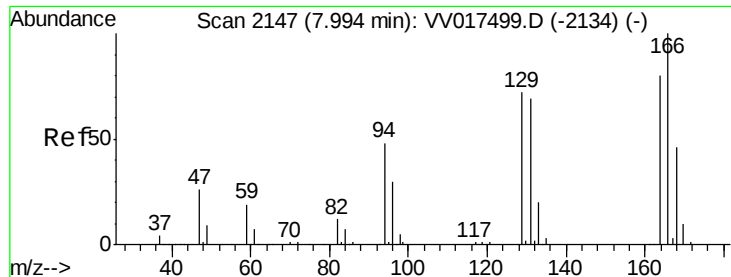
77 42.8 21.2 39.4#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#49

Tetrachloroethene

Concen: 1.215 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

X2M71DL

Tot Ion:164 Resp: 11308

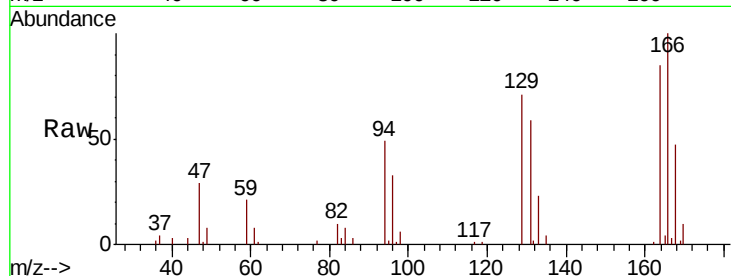
Ion Ratio Lower Upper

164 100

129 83.4 64.1 119.1

131 69.1 60.6 112.6

166 117.1 88.8 164.8



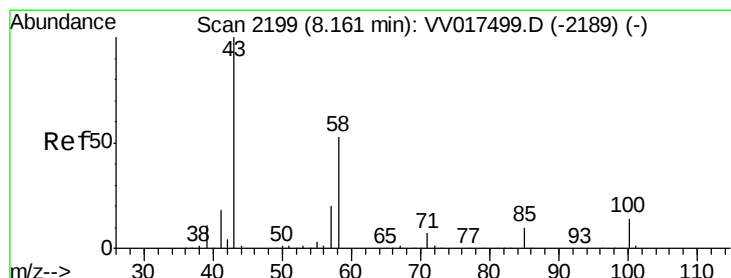
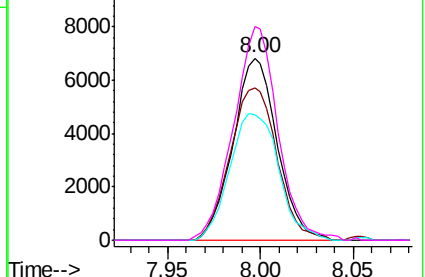
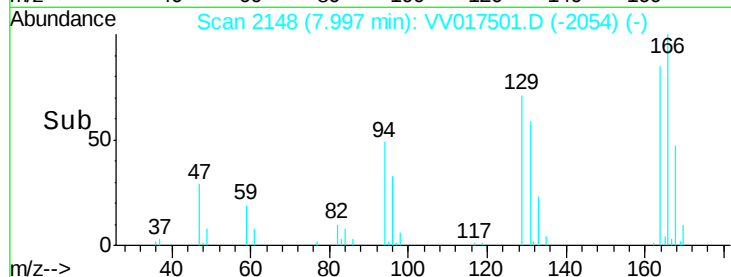
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

Time-->



#50

2-Hexanone

Concen: 7.417 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Tgt Ion: 43 Resp: 23884

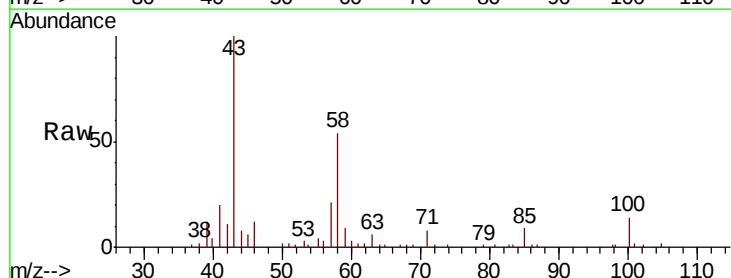
Ion Ratio Lower Upper

43 100

58 48.8 43.0 64.4

57 20.4 16.8 25.2

100 14.3 11.8 17.6



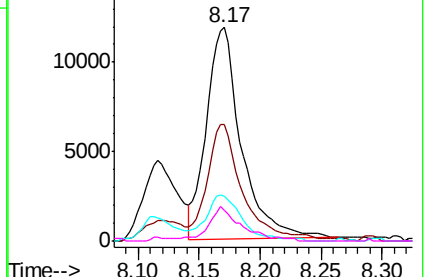
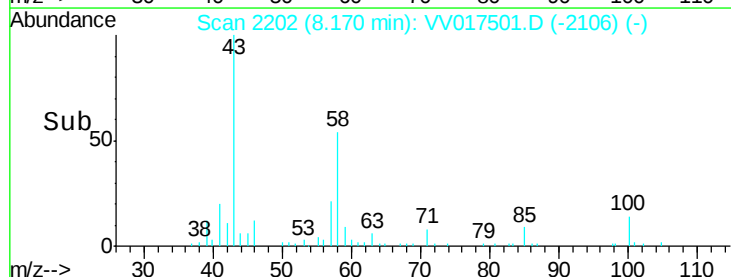
Abundance Ion 43.05 (42.75 to 43.75): VV0

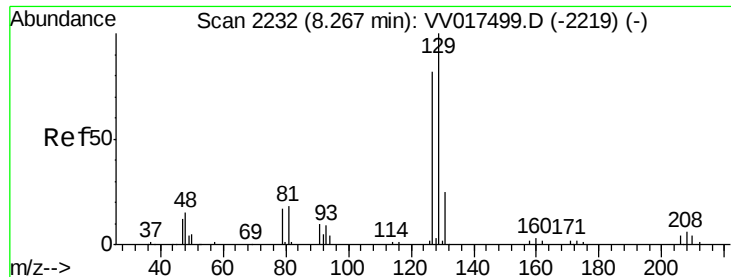
Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

Time-->





#51

Dibromochloromethane

Concen: 1.146 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

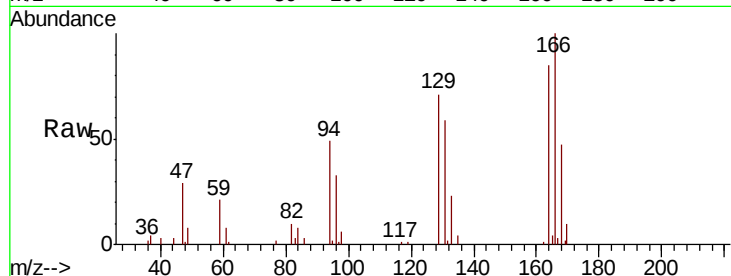
X2M71DL

Tot Ion:129 Resp: 9787

Ion Ratio Lower Upper

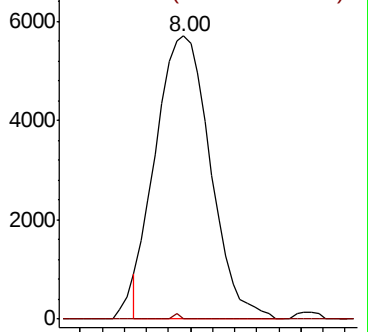
129 100

127 0.0 52.4 97.4#

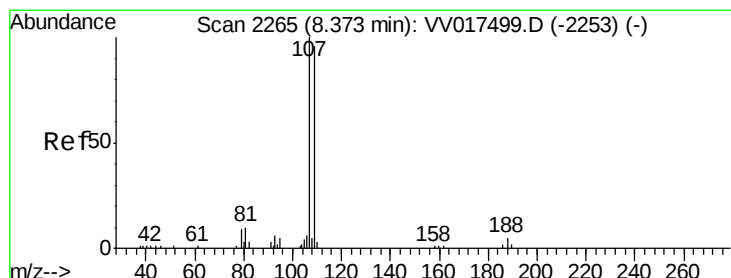
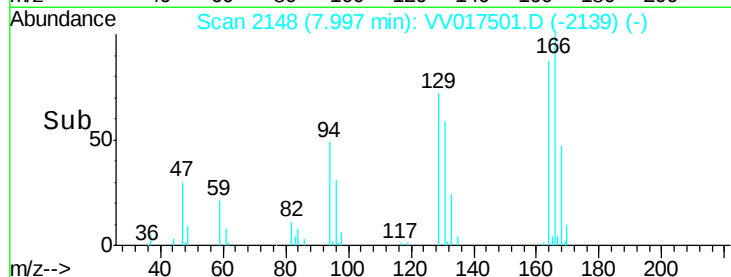


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



Time-->



#52

1,2-Dibromoethane

Concen: 0.483 ug/L

RT: 8.38 min Scan# 2267

Delta R.T. 0.01 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

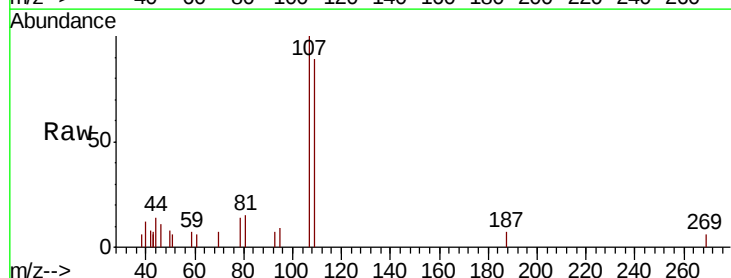
Tgt Ion:107 Resp: 2933

Ion Ratio Lower Upper

107 100

109 88.8 67.0 124.4

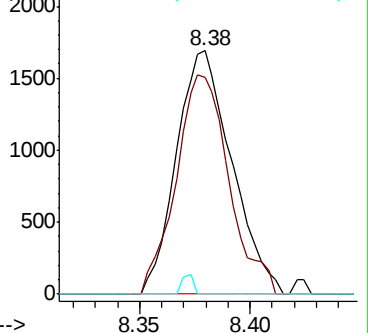
188 0.0 2.7 4.1#



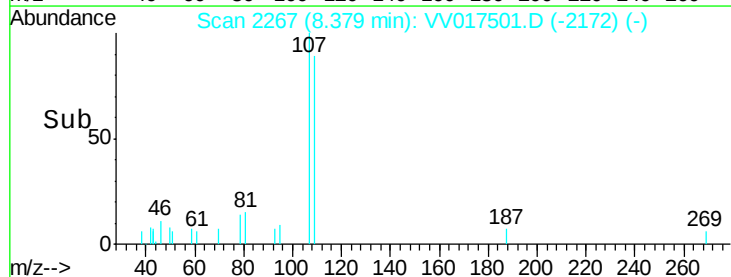
Abundance Ion 106.95 (106.65 to 107.65): V

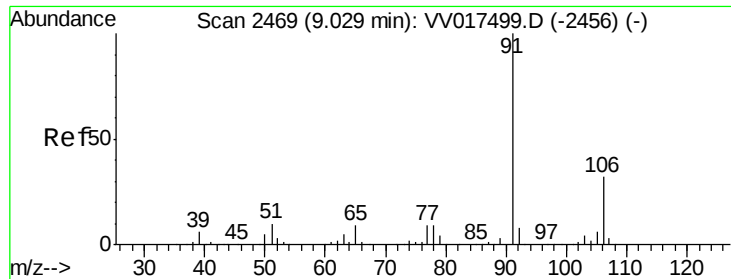
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



Time-->





#54

Ethylbenzene

Concen: 2.386 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

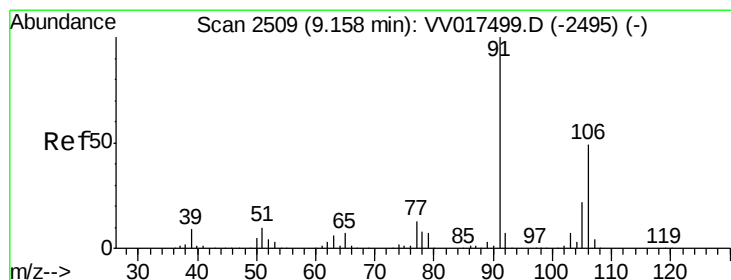
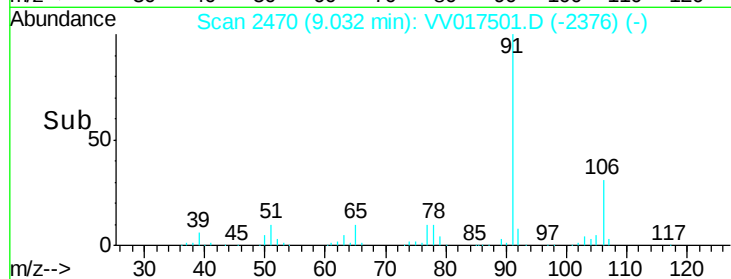
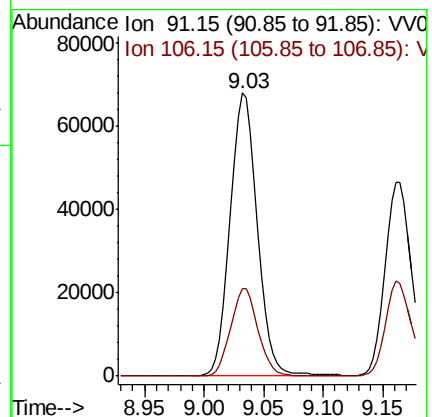
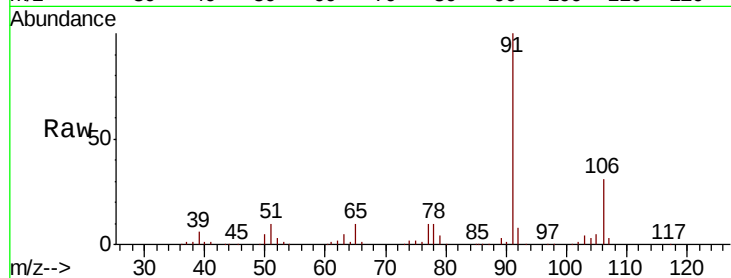
X2M71DL

Tot Ion: 91 Resp: 108014

Ion Ratio Lower Upper

91 100

106 30.8 21.9 40.7



#55

m,p-xylene

Concen: 2.040 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017501.D

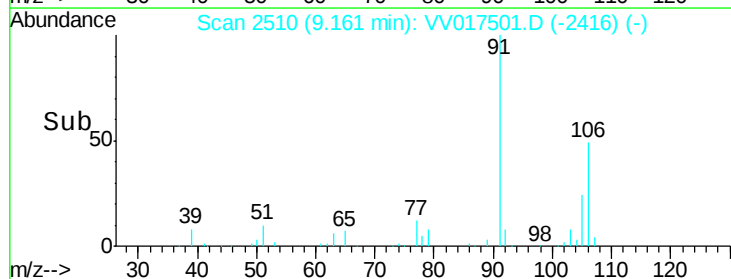
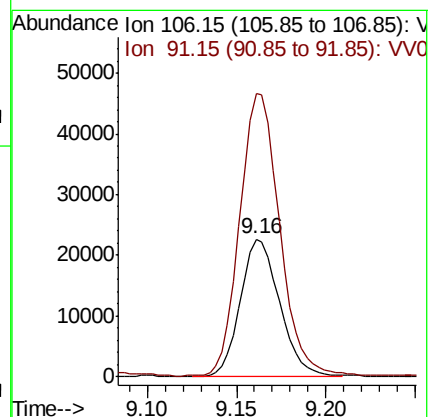
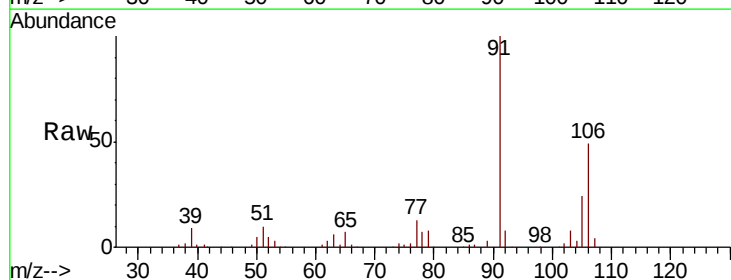
Acq: 15 Jul 2020 10:43

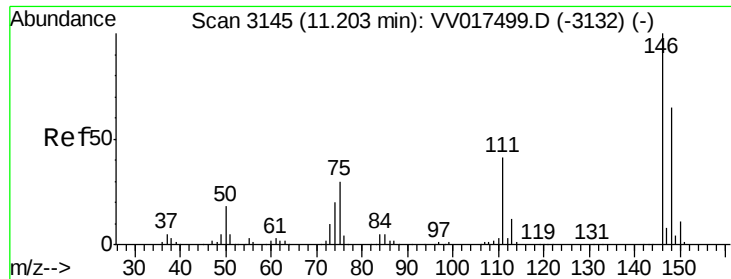
Tgt Ion: 106 Resp: 34914

Ion Ratio Lower Upper

106 100

91 205.3 144.2 267.8

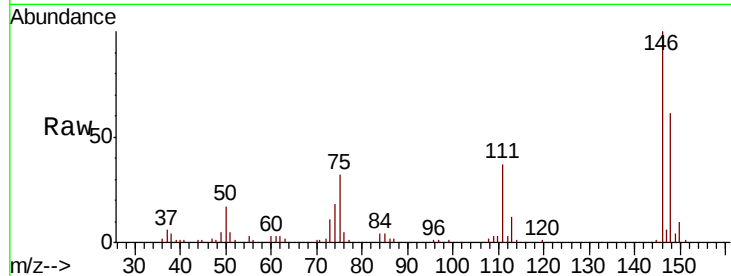




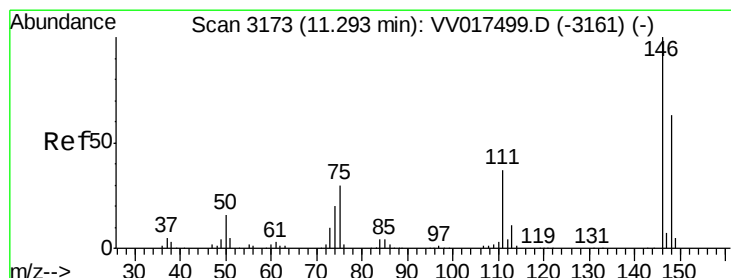
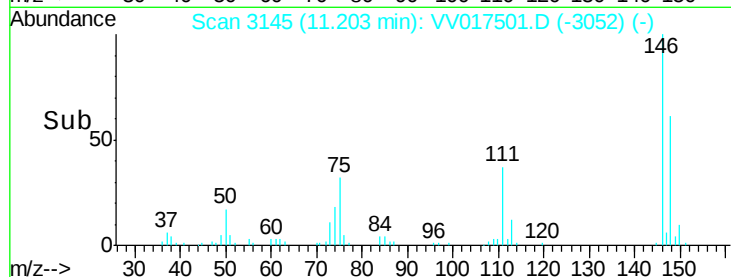
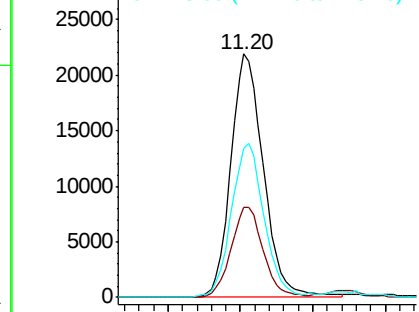
#63
 1,3-Dichlorobenzene
 Concen: 1.591 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. -0.00 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

Instrument :
 MSVOA_V
 ClientSampleId :
 X2M71DL

Tot Ion:146 Resp: 34096
 Ion Ratio Lower Upper
 146 100
 111 37.0 27.2 50.6
 148 61.0 45.6 84.6

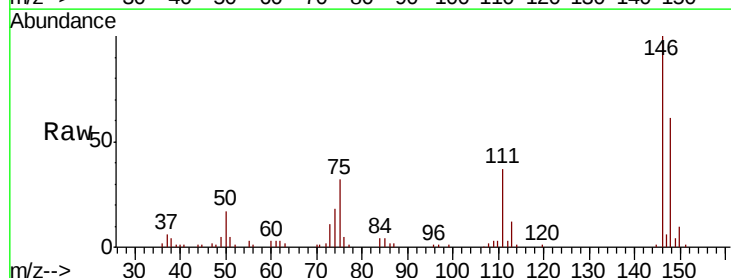


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



#64
 1,4-Dichlorobenzene
 Concen: 1.603 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. -0.09 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

Tgt Ion:146 Resp: 34096
 Ion Ratio Lower Upper
 146 100
 111 37.0 26.9 50.1
 148 61.0 46.1 85.5



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

